3. (AS ONCE AMENDED HEREIN) The data conversion method according to claim 1, wherein the weight of each Fourier component, of a frequency above a flicker frequency, is set to "0".

A2

4. (AS ONCE AMENDED HEREIN) The data conversion method according to claim 1, wherein a period of each display frame is different from a period of each original frame , comprising;

a current frame and a previous frame and a target gradation waveform defined by original frame data corresponding to the gradation waveform; and

setting the display frame data of the current frame so that a sum of error components, with respective weights that are obtained by weighting each Fourier component, is minimized.

A3

10. (AS ONCE AMENDED HEREIN) The data conversion method according to claim 8, wherein the weight of each Fourier component, of a frequency above a flicker frequency, is set to "0".

A4

15. (AS ONCE AMENDED HEREIN) A display device expressing gradation of original frame data by controlling a light emission timing of a display element in accordance with display frame data, the device comprising:

an original frame memory memorizing original frame data of at least one frame;

a display frame memory memorizing display frame data of at least one frame;

a data converting circuit outputting data corresponding to an input data value as display frame data of an n-th frame, responding to an input of original frame data of the n-th frame, original frame data of at least an (n-1)th frame from the original frame memory and display frame data of at least an (n-1)th frame from the display frame memory, wherein the display frame data outputted by the data converting are prepared by: memorizing original frame data of at least one frame;

a display frame memory memorizing display frame data of at least one frame;

a data converting circuit outputting data corresponding to an input data value as display

frame data of the n-th frame, responding to an input of original frame data of the n-th frame, original frame data of at least an (n-1)th frame from the original frame memory and display frame data of at least an (n-1)th frame from the display frame memory, wherein the display frame data outputted by the data converting circuit are prepared by: [the data conversion method of claim 8]

performing a Fourier expansion of an error between a gradation waveform indicating a gradation transition defined by display frame data of plural frames containing a current frame and a previous frame and a target gradation waveform defined by original frame data corresponding to the gradation waveform; and

setting the display frame data of the current frame so that a sum of error components, with respective weights that are obtained by weighting each Fourier component, is minimized.

16. (AS ONCE AMENDED HEREIN) A display device expressing gradation of original frame data by controlling a light emission timing of a display element in accordance with display frame data, the device comprising:

an original frame memory memorizing original frame data of at least one frame;

a display frame memory memorizing display frame data of at least one frame;

a data converting circuit outputting data corresponding to an input data value as display frame data of the n-th frame, responding to an input of original frame data of the n-th frame, original frame data of at least an (n-1)th frame from the original frame memory and display frame data of at least an (n-1)th frame from the display frame memory, wherein the display frame data outputted by the data converting circuit are prepared by: [the data conversion method of claim 8]

performing a Fourier expansion of an error between a gradation waveform indicating a gradation transition defined by display frame data of plural frames containing a current frame and a previous frame and a target gradation waveform defined by original frame data corresponding to the gradation waveform; and

setting the display frame data of the current frame so that a sum of error components, with respective weights that are obtained by weighting each Fourier component, is minimized.